# Annual Index of *Materials Evaluation*, Volume 62

**Authors:**


Abdul-Aziz, Ali, Louis J. Ghosn, George Y. Baaklini, Richard W. Rauser and John D. Zima, "A Combined NDT Fatigue Testing and Three Dimensional Image Processing Study of a SiC/SiC Composite System," *M.E.*, Vol. 62, No. 12, December 2004, pp. 1222-1226.

Abu-Zahra, Nidal H. and Taysir H. Nayfeh, "Online Measurement of Glass Filler in Polypropylene Compounds Containing Titanium Dioxide," *M.E.*, Vol. 62, No. 1, January 2004, pp. 63-68.

Akinō, Masashi, see Mihara, Tsuyoshi, *M.E.*, Vol. 62, No. 9, September 2004, pp. 943-947.

Akuthota, Bharath, see Muñoz, Kristen, *M.E.*, Vol. 62, No. 10, October 2004, pp. 1049-1056.

Alipour, Rameen, see Riahi, Mohammad, *M.E.*, Vol. 62, No. 3, March 2004, pp. 373-375.

Al-Qadi, Imad L., "NDT of Pavements: An Introduction to the Technical Focus Issue," *M.E.*, Vol. 62, No. 7, July 2004, p. 758.

Al-Qadi, Imad L. and Samer Lahouar, "Ground Penetrating Radar: State of the Practice for Pavement Assessment," *M.E.*, Vol. 62, No. 7, July 2004, pp. 759-763.

Angeles, J., see Earthman, J.C., *M.E.*, Vol. 62, No. 4, April 2004, pp. 460-465.

Arakawa, Takahiro, see Hatanaka, Hiroaki, *M.E.*, Vol. 62, No. 6, June 2004, pp. 683-689.

Baaklini, George Y., see Abdul-Aziz, Ali, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1222-1226.

Baker, Robert, "NDT as I Have Known It," *M.E.*, Vol. 62, No. 1, January 2004, pp. 19-20.

Bandara, Nishantha and Robert C. Briggs, "Nondestructive Testing of Pavement Structures," *Back to Basics, M.E.*, Vol. 62, No. 7, July 2004, pp. 733-740.

Beck, Kenneth H., "Problems Using Flat Reference Blocks for Calibrating Ultrasonic Systems for Testing Cylindrical Material," *NDT Solution, M.E.*, Vol. 62, No. 4, April 2004, pp. 427-429.

Benson, Craig W., "Eddy Current Testing of Jet Engines," *M.E.*, Vol. 62, No. 5, May 2004, pp. 516-522.

Bhatt, R.T., see Roth, D.J., *M.E.*, Vol. 62, No. 9, September 2004, pp. 948-953.

Blouin, Alain, see Ochiai, Makoto, *M.E.*, Vol. 62, No. 4, April 2004, pp. 450-459.

Boczar, Tomasz and Dariusz Zmarzly, "The Application of Correlation Analysis to Acoustic Emission Pulses Generated by Partial Discharges," *M.E.*, Vol. 62, No. 9, September 2004, pp. 935-942.

Bolton, Robert W., see Price, Angie Hill, *M.E.*, Vol. 62, No. 8, August 2004, pp. 835-836.

Bosch, I., see Vergara, L., *M.E.*, Vol. 62, No. 1, January 2004, pp. 73-78.

Brekow, G., see Munikoti, V., *M.E.*, Vol. 62, No. 11, November 2004, pp. 1148-1153.

Briggs, Robert C., see Bandara, Nishantha, *M.E.*, Vol. 62, No. 7, July 2004, pp. 733-740.

Brimble, K., see Moorthy, V., *M.E.*, Vol. 62, No. 5, May 2004, pp. 523-527.

Buynak, Charles F. and Matt Golis, "Reducing the Burden of NDT," *M.E.*, Vol. 62, No. 12, December 2004, pp. 1190-1194.

Carrasco, Miguel and Domingo Mery, "Segmentation of Welding Discontinuities Using a Robust Algorithm," *M.E.*, Vol. 62, No. 11, November 2004, pp. 1142-1147.

Chang, Ming-Kuen, see Chang, Ren-Rong, *M.E.*, Vol. 62, No. 1, January 2004, pp. 69-72.

Chang, Ren-Rong, Chi-Min Shu, Ming-Kuen Chang and Ngai-Mun Chow, "Prediction of Error Caused by Temperature Effects in Ultrasonic Thickness Measurement," *M.E.*, Vol. 62, No. 1, January 2004, pp. 69-72.

Chatti, Karim, "Use of Dynamic Analysis for Interpreting Pavement Response in Falling Weight Deflectometer Testing," *M.E.*, Vol. 62, No. 7, July 2004, pp. 764-774.

Chow, Ngai-Mun, see Chang, Ren-Rong, *M.E.*, Vol. 62, No. 1, January 2004, pp. 69-72.

Ciocan, Razvan and Nathan Ida, "Numerical Modeling of Microwave Testing of Materials Using a Transmission Line Matrix Technique," *Fellowship Award Paper, M.E.*, Vol. 62, No. 5, May 2004, pp. 528-534.

Clark, Robin, see Singh, Surendra, *M.E.*, Vol. 62, No. 2, February 2004, pp. 143-148.

Cosgriff, L.M., see Roth, D.J., *M.E.*, Vol. 62, No. 9, September 2004, pp. 948-953.

Crouse, Bruce, "The NDT Program at Cowley County Community College," *M.E.*, Vol. 62, No. 8, August 2004, pp. 827-828.

da Silva, Ivan C., see de Carvalho, Antonio A., *M.E.*, Vol. 62, No. 10, October 2004, pp. 1066-1070.

de Carvalho, Antonio A., Marcio H.S. Siqueira, Ivan C. da Silva and João M.A. Rebello, "Automatic Testing of Rigid Risers Using Time of Flight Diffraction and Neural Networks," *M.E.*, Vol. 62, No. 10, October 2004, pp. 1066-1070.

Domínguez, L.E., see Vergara, L., *M.E.*, Vol. 62, No. 1, January 2004, pp. 73-78.

Duke, John C., Jr., "Structural Health Monitoring: Before and after Crack Birth," *Mehl Honor Lecture, M.E.*, Vol. 62, No. 1, January 2004, pp. 53-55.

Earthman, J.C., J. Angeles, V. Markov, J. Trolinger and J.G. Moffatt, "Scattered Light Scanning for Fatigue Damage Precursor Detection on Turbine Components," *M.E.*, Vol. 62, No. 4, April 2004, pp. 460-465.

Elder, J.B., "Remote Testing of Underground High Level Radioactive Waste Storage Tanks," *NDT Solution, M.E.*, Vol. 62, No. 9, September 2004, pp. 915-920.

Erhard, A., see Munikoti, V., *M.E.*, Vol. 62, No. 11, November 2004, pp. 1148-1153.

Etcheverry, J., A. Nicolini, A. Pignotti, G. Sánchez and P. Stickar, "Shape Enhancement of Magnetic Flux Leakage Signals: Industrial Implementation," *M.E.*, Vol. 62, No. 8, August 2004, pp. 867-870.

Fanning, David F., "*Materials Evaluation* through the Years," *M.E.*, Vol. 62, No. 1, January 2004, pp. 21-23.

Ferreira, A.R., see Santos, M.J., *M.E.*, Vol. 62, No. 4, April 2004, pp. 443-449.

Forsyth, D., see Leemans, D.V., *M.E.*, Vol. 62, No. 8, August 2004, pp. 855-859.

Forsyth, D.S., see Safizadeh, M.S., *M.E.*, Vol. 62, No. 5, May 2004, pp. 535-539.

Fuente, J.V., see Vergara, L., *M.E.*, Vol. 62, No. 1, January 2004, pp. 73-78.

Fukumoto, Akira, see Ochiai, Makoto, *M.E.*, Vol. 62, No. 4, April 2004, pp. 450-459.

Gallaher, Eric, see Muñoz, Kristen, *M.E.*, Vol. 62, No. 10, October 2004, pp. 1049-1056.

Ganesan, Vaidehi, P. Palanichamy and Baldev Raj, "Elastic Modulus Determination as a Potential Tool for Predicting Embrittlement in a Ferritic Steel," *M.E.*, Vol. 62, No. 2, February 2004, pp. 137-142.

Ghosn, Louis J., see Abdul-Aziz, Ali, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1222-1226.

Golis, Matt, see Buynak, Charles F., *M.E.*, Vol. 62, No. 12, December 2004, pp. 1190-1194.

Gosálbez, J., see Vergara, L., *M.E.*, Vol. 62, No. 1, January 2004, pp. 73-78.

Grimmett, B.B., see Lozev, M.G., *M.E.*, Vol. 62, No. 11, November 2004, pp. 1135-1141.
Hagemaier, Don, "Eddy Current Depth of Penetration," *Back to Basics, M.E.*, Vol. 62, No. 10, October 2004, pp. 1028-1029.
Hagemaier, Don, "Failure of the X-ray Inverse Square Law," *Tech Tips, M.E.*, Vol. 62, No. 11, November 2004, p. 1131.
Hands, Godfrey and Robert H. Nath, "Nondestructive Testing of Small Castings," *Back to Basics, M.E.*, Vol. 62, No. 2, February 2004, pp. 111-115.
Hatanaka, Hiroaki, Ichiro Kajigaya and Takahiro Arakawa, "Ultrasonic Testing with a Signal Processing Method for Thermal Sprayed Coatings," *M.E.*, Vol. 62, No. 6, June 2004, pp. 683-689.
Henneke, Edmund G., II, "*Research in Nondestructive Evaluation* Resumes Publication," *M.E.*, Vol. 62, No. 2, February 2004, p. 110.
Hinders, Mark K., "Nondestructive Testing Doctoral Program at the College of William and Mary," *M.E.*, Vol. 62, No. 8, August 2004, pp. 833-834.
Holliday, Wayne N., "An Expression of Thanks," *From the Executive Director, M.E.*, Vol. 62, No. 1, January 2004, p. 7.
Hurd, James C., Toan H. Nguyen and Lawrence C. Lynnworth, "Shear Wave Polarization Follows Twist of Rectangular Steel Bar," *NDT Solution, M.E.*, Vol. 62, No. 1, January 2004, pp. 37-42.
Ida, Nathan, see Ciocan, Razvan, *M.E.*, Vol. 62, No. 5, May 2004, pp. 528-534.
Iddings, Frank A., "The Basics of Visual Testing," *Back to Basics, M.E.*, Vol. 62, No. 5, May 2004, pp. 500-501.
Iddings, Frank A., "How Gamma Emitting Radioisotopes Are Identified," *Back to Basics, M.E.*, Vol. 62, No. 4, April 2004, pp. 418-420.
Iddings, Frank A., "Twenty-five Years of Getting Back to Basics," *M.E.*, Vol. 62, No. 9, September 2004, pp. 913-914.
Jayakumar, T., see Thirunavukkarasu, S., *M.E.*, Vol. 62, No. 12, December 2004, pp. 1213-1217.
Kajigaya, Ichiro, see Hatanaka, Hiroaki, *M.E.*, Vol. 62, No. 6, June 2004, pp. 683-689.
Kalyanasundaram, P., see Thirunavukkarasu, S., *M.E.*, Vol. 62, No. 12, December 2004, pp. 1213-1217.
Karbhari, Vistasp M., see Lanza di Scalea, Francesco, *M.E.*, Vol. 62, No. 8, August 2004, p. 829.
Kim, Young H., see Lee, Sung Sik, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1218-1221.
Kleven, Stuart, "Digital Radiography in the Electric Power Industry," *NDT Solution, M.E.*, Vol. 62, No. 12, December 2004, pp. 1198-1200.
Kleven, Stuart, "NDT for the Lincoln Park Zoo Animal Cages," *Back to Basics, M.E.*, Vol. 62, No. 8, August 2004, pp. 825-826.
Kleven, Stuart, "Use of Computed Radiology in the Food Industry," *Back to Basics, M.E.*, Vol. 62, No. 6, June 2004, pp. 580-581.
Kukureka, S.N., see Wei, C.Y., *M.E.*, Vol. 62, No. 3, March 2004, pp. 376-381.
Lahouar, Samer, see Al-Qadi, Imad L., *M.E.*, Vol. 62, No. 7, July 2004, pp. 759-763.
Lanza di Scalea, Francesco and Vistasp M. Karbhari, "Development of an Undergraduate Course on Nondestructive Testing," *M.E.*, Vol. 62, No. 8, August 2004, p. 829.
Lanza di Scalea, Francesco, see McNamara, John, *M.E.*, Vol. 62, No. 3, March 2004, p. 365-372.
Lanza di Scalea, Francesco, see Rizzo, Piervincenzo, *M.E.*, Vol. 62, No. 10, October 2004, pp. 1057-1065.
Lavender, Stephen J., "The World Conference on NDT—Montréal," *International News, M.E.*, Vol. 62, No. 12, December 2004, p.1234.
Lee, Sung Sik and Young H. Kim, "Thickness Testing Using a New Relationship between Film Density and Penetrated Thickness in Radiography," *M.E.*, Vol. 62, No. 12, December 2004, pp. 1218-1221.
Leemans, D.V. and D. Forsyth, "Bayesian Approaches to Using Field Test Data in Determining the Probability of Detection," *M.E.*, Vol. 62, No. 8, August 2004, pp. 855-859.
Lepine, B.A., see Safizadeh, M.S., *M.E.*, Vol. 62, No. 5, May 2004, pp. 535-539.
Lévesque, Daniel, see Ochiai, Makoto, *M.E.*, Vol. 62, No. 4, April 2004, pp. 450-459.
Leybovich, Alex, "Method of In Situ Thickness Measurement of Sputtering Target Bonded Assemblies Using the Bubbler Technique," *M.E.*, Vol. 62, No. 3, March 2004, pp. 334-336.
Liu, Z., see Safizadeh, M.S., *M.E.*, Vol. 62, No. 5, May 2004, pp. 535-539.
Lo, Chester C.H., "A Review of the Barkhausen Effect and Its Applications to Nondestructive Testing," *M.E.*, Vol. 62, No. 7, July 2004, pp. 741-748.
López, A.M., see Vergara, L., *M.E.*, Vol. 62, No. 1, January 2004, pp. 73-78.
Lozev, M.G., E.B. Shell, R.L. Spencer and B.B. Grimmett, "Testing Superaustenitic Stainless Steel Welds Using Phased Array Ultrasonics," *M.E.*, Vol. 62, No. 11, November 2004, pp. 1135-1141.
Luo, Wei and Joseph L. Rose, "Lamb Wave Thickness Measurement Potential with Angle Beam and Normal Beam Excitation," *M.E.*, Vol. 62, No. 8, August 2004, pp. 860-866.
Lynnworth, Lawrence C., see Hurd, James C., *M.E.*, Vol. 62, No. 1, January 2004, pp. 37-42.
Lynnworth, Lawrence C., see Nguyen, Toan H., *M.E.*, Vol. 62, No. 6, June 2004, pp. 690-698.
Mackin, Joseph L., "ASNT Conferences: An Opportunity to Become Involved," *From the President, M.E.*, Vol. 62, No. 3, March 2004, p. 311.
Mackin, Joseph L., "ASNT Conferences: An Opportunity to Grow as Professionals," *From the President, M.E.*, Vol. 62, No. 9, September 2004, p. 891.
Mackin, Joseph L., "ASNT Recertification Points Revision," *From the President, M.E.*, Vol. 62, No. 10, October 2004, p. 975.
Mackin, Joseph L., "Bylaws Change Vote Delayed," *From the President, M.E.*, Vol. 62, No. 8, August 2004, p. 811.
Mackin, Joseph L., "In Appreciation of Volunteers," *From the Chair, M.E.*, Vol. 62, No. 12, December 2004, p. 1175.
Mackin, Joseph L., "Participating in the ASNT Election Process," *From the President, M.E.*, Vol. 62, No. 7, July 2004, p. 719.
Mackin, Joseph L., "The Past and Future of Certification Programs," *From the President, M.E.*, Vol. 62, No. 11, November 2004, p. 1091.
Mackin, Joseph L., "Proposed Bylaws Changes," *From the President, M.E.*, Vol. 62, No. 2, February 2004, p. 99.
Mackin, Joseph L., "Sections Are the Backbone of Our Society," *From the President, M.E.*, Vol. 62, No. 4, April 2004, p. 403.
Markov, V., see Earthman, J.C., *M.E.*, Vol. 62, No. 4, April 2004, pp. 460-465.
Martin, R.E., see Roth, D.J., *M.E.*, Vol. 62, No. 9, September 2004, pp. 948-953.
Masad, Eyad, "X-ray Computed Tomography of Aggregates and Asphalt Mixes," *M.E.*, Vol. 62, No. 7, July 2004, pp. 775-783.
McGhee, Kevin K., "Application of High Speed Texture Measurement to Traditional Hot Mix Asphalt Acceptance Testing," *M.E.*, Vol. 62, No. 7, July 2004, pp. 784-789.
McNamara, John and Francesco Lanza di Scalea, "Improvements in Noncontact Ultrasonic Testing of Rails by the Discrete Wavelet Transform," *M.E.*, Vol. 62, No. 3, March 2004, pp. 365-372.
Mery, Domingo, see Carrasco, Miguel, *M.E.*, Vol. 62, No. 11, November 2004, pp. 1142-1147.
Mihara, Tsuyoshi, Shinji Nomura, Masashi Akino and Kazushi Yamanaka, "Relationship between Crack Opening Behavior and Crack Tip Scattering and Diffraction of Longitudinal Waves," *M.E.*, Vol. 62, No. 9, September 2004, pp. 943-947.
Miralles, R., see Vergara, L., *M.E.*, Vol. 62, No. 1, January 2004, pp. 73-78.
Moffatt, J.G., see Earthman, J.C., *M.E.*, Vol. 62, No. 4, April 2004, pp. 460-465.
Monchalin, Jean-Pierre, see Ochiai, Makoto, *M.E.*, Vol. 62, No. 4, April 2004, pp. 450-459.
Moorthy, V., B.A. Shaw and K. Brimble, "Testing of Case Depth in Case Carburized Gear Steels Using Magnetic Barkhausen Emission Technique," *M.E.*, Vol. 62, No. 5, May 2004, pp. 523-527.
Munikoti, V., G. Brekow, U. Tessaro and A. Erhard, "Ultrasonic Testing for Transverse Discontinuities in Dissimilar Welds: Theoretical and Experimental Results," *M.E.*, Vol. 62, No. 11, November 2004, pp. 1148-1153.
Muñoz, Kristen, Bharath Akuthota, Eric Gallaher and Reza Zoughi, "Microwave Reflection Properties of Mortar Possessing a Cyclically Ingressed Sodium Chloride Profile," *Fellowship Award Paper, M.E.*, Vol. 62, No. 10, October 2004, pp. 1049-1056.
Nath, Robert H., see Hands, Godfrey, *M.E.*, Vol. 62, No. 2, February 2004, pp. 111-115.
Nayfeh, Taysir H., see Abu-Zahra, Nidal H., *M.E.*, Vol. 62, No. 1, January 2004, pp. 63-68.
Nguyen Toan, H., Christopher D. Smart and Lawrence C. Lynnworth, "Transverse Shear to Torsion Mode Converter and Applications," *M.E.*, Vol. 62, No. 6, June 2004, pp. 690-698.
Nguyen, Toan H., see Hurd, James C., *M.E.*, Vol. 62, No. 1, January 2004, pp. 37-42.
Nicolini, A., see Etcheverry, J., *M.E.*, Vol. 62, No. 8, August 2004, pp. 867-870.
Nomura, Shinji, see Mihara, Tsuyoshi, *M.E.*, Vol. 62, No. 9, September 2004, pp. 943-947.
Ochiai, Makoto, Daniel Lévesque, Richard Talbot, Alain Blouin, Akira Fukumoto and Jean-Pierre Monchalin, "Detection and Characterization of Discontinuities in Stainless Steel by the Laser Ultrasonic Synthetic Aperture Focusing Technique," *M.E.*, Vol. 62, No. 4, April 2004, pp. 450-459.
Palanichamy, P., see Ganesan, Vaidehi, *M.E.*, Vol. 62, No. 2, February 2004, pp. 137-142.
Papadakis, Emmanuel P., "The Basic Food Chain: From Research to Commercialization," *Back to Basics, M.E.*, Vol. 62, No. 1, January 2004, pp. 29-30.
Pardini, Allan F., "Examining the Knuckle Region of Hanford's Double Shell Waste Tanks," *M.E.*, Vol. 62, No. 11, November 2004, pp. 1114-1120.
Perdigão, J.M., see Santos, M.J., *M.E.*, Vol. 62, No. 4, April 2004, pp. 443-449.
Pignotti, A., see Etcheverry, J., *M.E.*, Vol. 62, No. 8, August 2004, pp. 867-870.
Pollock, Adrian A., "Loading and Stress in Acoustic Emission Testing," *Back to Basics, M.E.*, Vol. 62, No. 3, March 2004, pp. 326-333.
Price, Angie Hill and Robert W. Bolton, "Integration of Inspection Methodologies in a Manufacturing Curriculum," *M.E.*, Vol. 62, No. 8, August 2004, pp. 835-836.

Quigley, Kelly, "The Changing Pages of *Materials Evaluation*," *M.E.*, Vol. 62, No. 1, January 2004, pp. 25-26.
Raj, Baldev, see Ganesan, Vaidehi, *M.E.*, Vol. 62, No. 2, February 2004, pp. 137-142.
Raj, Baldev, see Thirunavukkarasu, S., *M.E.*, Vol. 62, No. 12, December 2004, pp. 1213-1217.
Rao, B.P.C., see Thirunavukkarasu, S., *M.E.*, Vol. 62, No. 12, December 2004, pp. 1213-1217.
Rauser, Richard W., see Abdul-Aziz, Ali, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1222-1226.
Rebello, João M.A., see de Carvalho, Antonio A., *M.E.*, Vol. 62, No. 10, October 2004, pp. 1066-1070.
Riahi, Mohammad and Rameen Alipour, "Predictive Model for Determination of Pitting Corrosion in Stainless Steel Pipes," *M.E.*, Vol. 62, No. 3, March 2004, pp. 373-375.
Rizzo, Piervincenzo and Francesco Lanza di Scalea, "Load Measurement and Health Monitoring in Cable Stays via Guided Wave Magnetostrictive Ultrasonics," *Fellowship Award Paper, M.E.*, Vol. 62, No. 10, October 2004, pp. 1057-1065.
Rose, Joseph L., see Luo, Wei, *M.E.*, Vol. 62, No. 8, August 2004, pp. 860-866.
Roth, D.J., M.J. Verrilli, L.M. Cosgriff, R.E. Martin and R.T. Bhatt, "Microstructural and Discontinuity Characterization in Ceramic Composites Using an Ultrasonic Guided Wave Scan System," *M.E.*, Vol. 62, No. 9, September 2004, pp. 948-953.
Safizadeh, M.S., Z. Liu, B.A. Lepine and D.S. Forsyth, "Multifrequency Eddy Current for the Characterization of Corrosion in Multilayer Structures," *M.E.*, Vol. 62, No. 5, May 2004, pp. 535-539.
Salazar, A., see Vergara, L., *M.E.*, Vol. 62, No. 1, January 2004, pp. 73-78.
Sánchez, G., see Etcheverry, J., *M.E.*, Vol. 62, No. 8, August 2004, pp. 867-870.
Santos, M.J., A.R. Ferreira and J.M. Perdigão, "Practical Considerations on Ultrasonic Guided Wave Propagation: Immersion and Contact Methods," *M.E.*, Vol. 62, No. 4, April 2004, pp. 443-449.
Shaw, B.A., see Moorthy, V., *M.E.*, Vol. 62, No. 5, May 2004, pp. 523-527.
Shell, E.B., see Lozev, M.G., *M.E.*, Vol. 62, No. 11, November 2004, pp. 1135-1141.
Shu, Chi-Min, see Chang, Ren-Rong, *M.E.*, Vol. 62, No. 1, January 2004, pp. 69-72.
Singh, Surendra and Robin Clark, "Ultrasonic Examination of Thermite Welds in Rails Based on the AREMA Guidelines," *M.E.*, Vol. 62, No. 2, February 2004, pp. 143-148.
Siqueira, Marcio H.S., see de Carvalho, Antonio A., *M.E.*, Vol. 62, No. 10, October 2004, pp. 1066-1070.
Smart, Christopher D., see Nguyen, Toan H., *M.E.*, Vol. 62, No. 6, June 2004, pp. 690-698.
Spencer, R.L., see Lozev, M.G., *M.E.*, Vol. 62, No. 11, November 2004, pp. 1135-1141.
Stanley, Roderic K., "Observations on Magnetic Wall Measurements of Coiled Oilfield Tubing," *NDT Solution, M.E.*, Vol. 62, No. 2, February 2004, pp. 125-128.
Stephens, Henry M., "Play Second Fiddle for ASNT," *From the Vice President, M.E.*, Vol. 62, No. 6, June 2004, p. 567.
Stickar, P., see Etcheverry, J., *M.E.*, Vol. 62, No. 8, August 2004, pp. 867-870.
Talbot, Richard, see Ochiai, Makoto, *M.E.*, Vol. 62, No. 4, April 2004, pp. 450-459.
Tessaro, U., see Munikoti, V., *M.E.*, Vol. 62, No. 11, November 2004, pp. 1148-1153.
Thirunavukkarasu, S., B.P.C. Rao, T. Jayakumar, P. Kalyanasundaram and Baldev Raj, "Quantitative Eddy Current Testing Using Radial Basis Function Neural Networks," *M.E.*, Vol. 62, No. 12, December 2004, pp. 1213-1217.
Trolinger, J., see Earthman, J.C., *M.E.*, Vol. 62, No. 4, April 2004, pp. 460-465.
Vergara, L., J. Gosálbez, J.V. Fuente, R. Miralles, I. Bosch, A. Salazar, A.M. López and L.E. Domínguez, "Ultrasonic Nondestructive Testing on Marble Rock Blocks," *M.E.*, Vol. 62, No. 1, January 2004, pp. 73-78.
Verrilli, M.J., see Roth, D.J., *M.E.*, Vol. 62, No. 9, September 2004, pp. 948-953.
Vukelich, Sharon I., "Diversity," *From the Secretary/Treasurer, M.E.*, Vol. 62, No. 5, May 2004, p. 487.
Wei, C.Y. and S.N. Kukureka, "Temperature Dependence of Dynamic Modulus and Damping in Composites and Optical Telecommunication Cables Tested by the Vibration Resonance Technique," *M.E.*, Vol. 62, No. 3, March 2004, pp. 376-381.
Yamanaka, Kazushi, see Mihara, Tsuyoshi, *M.E.*, Vol. 62, No. 9, September 2004, pp. 943-947.
Zima, John D., see Abdul-Aziz, Ali, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1222-1226.
Zmarzly, Dariusz, see Boczar, Tomasz, *M.E.*, Vol. 62, No. 9, September 2004, pp. 935-942.
Zoofan, Bahman, "Measuring Discontinuity Depth of Butt Welds," *Tech Tips, M.E.*, Vol. 62, No. 1, January 2004, p. 59.
Zoughi, Reza, see Muñoz, Kristen, *M.E.*, Vol. 62, No. 10, October 2004, pp. 1049-1056.

**Keywords:**

"2003 ASNT Annual Business Meeting Minutes," *Special Notice, M.E.*, Vol. 62, No. 4, April 2004, pp. 430-431.
"2003-2004 President's Award Final Standings," *M.E.*, Vol. 62, No. 10, October 2004, p. 1031.
"2004 ASNT Annual Business Meeting Agenda," *Special Notice, M.E.*, Vol. 62, No. 10, October 2004, p. 1034.
"2004 ASNT Award Winners," *M.E.*, Vol. 62, No. 10, October 2004, pp. 1023-1025.
"2004 ASNT Section Leaders Conference," *Wrap-up, M.E.*, Vol. 62, No. 8, August 2004, p. 853.
"2004-2005 ASNT Nominees and Candidates for Officers and Directors," *Biographies, M.E.*, Vol. 62, No. 6, June 2004, pp. 583-588.
"2004-2005 ASNT Officer and Director Positions Announced, Nominees and Candidates for," *Special Notice, M.E.*, Vol. 62, No. 5, May 2004, p. 508.
"2005 Oliver Scholarship Invited, Applications for," *Awards and Honors, M.E.*, Vol. 62, No. 10, October 2004, p. 1045.
"2006 Lester Honor Lecture Solicitation," *Society News, M.E.*, Vol. 62, No. 2, February 2004, p. 122.
"ACCP Level II Visual Testing Certification Available to AWS CWIs and SCWIs," *Special Announcement, M.E.*, Vol. 62, No. 12, December 2004, p. 1196.
"ASNT 2004 Election Results," *Society News, M.E.*, Vol. 62, No. 10, October 2004, p. 1033.
"ASNT Announces Award Winners," *Society News, M.E.*, Vol. 62, No. 6, June 2004, pp. 676-677.
"ASNT Announces Award Winners," *Society News, M.E.*, Vol. 62, No. 8, August 2004, p. 840.
"ASNT Annual Business Meeting Minutes, 2003," *Special Notice, M.E.*, Vol. 62, No. 4, April 2004, pp. 430-431.
"ASNT Awards and Honors Applications Accepted," *Society News, M.E.*, Vol. 62, No. 2, February 2004, p. 122.
"ASNT Awards and Honors Applications Accepted," *Society News, M.E.*, Vol. 62, No. 8, August 2004, p. 840.
"ASNT Conferences: An Opportunity to Become Involved," Joseph L. Mackin, *From the President, M.E.*, Vol. 62, No. 3, March 2004, p. 311.
"ASNT Conferences: An Opportunity to Grow as Professionals," Joseph L. Mackin, *From the President, M.E.*, Vol. 62, No. 9, September 2004, p. 891.
"ASNT Fellow Award Nominations Solicited," *Awards and Honors, M.E.*, Vol. 62, No. 11, November 2004, p. 1124.
"ASNT Fellowship Award," *Awards and Honors, M.E.*, Vol. 62, No. 10, October 2004, pp. 1044-1045.
"ASNT Memorial Scholarship Fund," *Society News, M.E.*, Vol. 62, No. 2, February 2004, p. 122.
"ASNT Recertification Points Revision," Joseph L. Mackin, *From the President, M.E.*, Vol. 62, No. 10, October 2004, p. 975.
"ASNT's 13th Annual Research Symposium, Austin, Texas," *Wrap-up, M.E.*, Vol. 62, No. 5, May 2004, p. 509.
"Acoustic Emission Pulses Generated by Partial Discharges, The Application of Correlation Analysis to," Tomasz Boczar and Dariusz Zmarzly, *M.E.*, Vol. 62, No. 9, September 2004, pp. 935-942.
"Acoustic Emission Testing, Loading and Stress in," Adrian A. Pollock, *Back to Basics, M.E.*, Vol. 62, No. 3, March 2004, pp. 326-333.
"Annual Business Meeting Notice, *Society News, M.E.*, Vol. 62, No. 10, October 2004, p. 1033.
"Another Successful Structural Materials Topical," *Wrap-up, M.E.*, Vol. 62, No. 12, December 2004, p. 1211.
"Application of Correlation Analysis to Acoustic Emission Pulses Generated by Partial Discharges, The," Tomasz Boczar and Dariusz Zmarzly, *M.E.*, Vol. 62, No. 9, September 2004, pp. 935-942.
"Application of High Speed Texture Measurement to Traditional Hot Mix Asphalt Acceptance Testing," Kevin K. McGhee, *M.E.*, Vol. 62, No. 7, July 2004, pp. 784-789.
"Applications for 2005 Oliver Scholarship Invited," *Awards and Honors, M.E.*, Vol. 62, No. 10, October 2004, p. 1045.
"Asphalt Acceptance Testing, Application of High Speed Texture Measurement to Traditional Hot Mix," Kevin K. McGhee, *M.E.*, Vol. 62, No. 7, July 2004, pp. 784-789.
"Automatic Testing of Rigid Risers Using Time of Flight Diffraction and Neural Networks," Antonio A. de Carvalho, Marcio H.S. Siqueira, Ivan C. da Silva and João M.A. Rebello, *M.E.*, Vol. 62, No. 10, October 2004, pp. 1066-1070.
"Award Winners, 2004 ASNT," *M.E.*, Vol. 62, No. 10, October 2004, pp. 1023-1025.
*Awards and Honors:* "ASNT Fellowship Award," *M.E.*, Vol. 62, No. 10, October 2004, pp. 1044-1045.
*Awards and Honors:* "Mentoring Award," *M.E.*, Vol. 62, No. 12, December 2004, p. 1204.
*Awards and Honors:* "Philip D. Johnson Honorary Member Award," *M.E.*, Vol. 62, No. 9, September 2004, p. 921.

*Awards and Honors:* "Robert C. McMaster Gold Medal," *M.E.*, Vol. 62, No. 11, November 2004, pp. 1123-1124.
*Back to Basics:* "The Basic Food Chain: From Research to Commercialization," Emmanuel P. Papadakis, *M.E.*, Vol. 62, No. 1, January 2004, pp. 29-30.
*Back to Basics:* "The Basics of Visual Testing," Frank A. Iddings, *M.E.*, Vol. 62, No. 5, May 2004, pp. 500-501.
*Back to Basics:* "Eddy Current Depth of Penetration," Don Hagemaier, *M.E.*, Vol. 62, No. 10, October 2004, pp. 1028-1029.
*Back to Basics:* "How Gamma Emitting Radioisotopes Are Identified," Frank A. Iddings, *M.E.*, Vol. 62, No. 4, April 2004, pp. 418-420.
*Back to Basics:* "Loading and Stress in Acoustic Emission Testing," Adrian A. Pollock, *M.E.*, Vol. 62, No. 3, March 2004, pp. 326-333.
*Back to Basics:* "NDT for the Lincoln Park Zoo Animal Cages," Stuart Kleven, *M.E.*, Vol. 62, No. 8, August 2004, pp. 825-826.
*Back to Basics:* "Nondestructive Testing of Pavement Structures," Nishantha Bandara and Robert C. Briggs, *M.E.*, Vol. 62, No. 7, July 2004, pp. 733-740.
*Back to Basics:* "Nondestructive Testing of Small Castings," Godfrey Hands and Robert H. Nath, *M.E.*, Vol. 62, No. 2, February 2004, pp. 111-115.
*Back to Basics:* "Use of Computed Radiology in the Food Industry," Stuart Kleven, *M.E.*, Vol. 62, No. 6, June 2004, pp. 580-581.
"Back to Basics, Twenty-five Years of Getting," Frank A. Iddings, *M.E.*, Vol. 62, No. 9, September 2004, pp. 913-914.
"Barkhausen Effect and Its Applications to Nondestructive Testing, A Review of the," Chester C.H. Lo, *M.E.*, Vol. 62, No. 7, July 2004, pp. 741-748.
"Basic Food Chain: From Research to Commercialization, The," Emmanuel P. Papadakis, *Back to Basics*, *M.E.*, Vol. 62, No. 1, January 2004, pp. 29-30.
"Basics of Visual Testing, The," Frank A. Iddings, *Back to Basics*, *M.E.*, Vol. 62, No. 5, May 2004, pp. 500-501.
"Bayesian Approaches to Using Field Test Data in Determining the Probability of Detection," D.V. Leemans and D. Forsyth, *M.E.*, Vol. 62, No. 8, August 2004, pp. 855-859.
*Biographies:* "2004-2005 ASNT Nominees and Candidates for Officers and Directors," *M.E.*, Vol. 62, No. 6, June 2004, pp. 583-588.
"Bubbler Technique, Method of In Situ Thickness Measurement of Sputtering Target Bonded Assemblies Using the," *M.E.*, Vol. 62, No. 3, March 2004, pp. 334-336.
"Bylaws Change Vote Delayed," Joseph L. Mackin, *From the President*, *M.E.*, Vol. 62, No. 8, August 2004, p. 811.
"Bylaws Proposed, Change in ASNT," *Special Notice*, *M.E.*, Vol. 62, No. 10, October 2004, p. 1035.
"Cables Tested by the Vibration Resonance Technique, Temperature Dependence of Dynamic Modulus and Damping in Composites and Optical Telecommunication," C.Y. Wei and S.N. Kukureka, *M.E.*, Vol. 62, No. 3, March 2004, pp. 376-381.
"Ceramic Composites Using an Ultrasonic Guided Wave Scan System, Microstructural and Discontinuity Characterization in," D.J. Roth, M.J. Verrilli, L.M. Cosgriff, R.E. Martin and R.T. Bhatt, *M.E.*, Vol. 62, No. 9, September 2004, pp. 948-953.
"Certification Management Council Seeks Applicants," *Society News*, *M.E.*, Vol. 62, No. 1, January 2004, pp. 27-28.
"Certification Management Council Seeks Applicants," *Society News*, *M.E.*, Vol. 62, No. 11, November 2004, p. 1130.
"Certification Management Council Seeks Applicants," *Society News*, *M.E.*, Vol. 62, No. 12, December 2004, p. 1196.
"Certification Programs, The Past and Future of," Joseph L. Mackin, *From the President*, *M.E.*, Vol. 62, No. 11, November 2004, p. 1091.
"Change in ASNT Bylaws Proposed," *Special Notice*, *M.E.*, Vol. 62, No. 10, October 2004, p. 1035.
"Changing Pages of *Materials Evaluation*, The," Kelly Quigley, *M.E.*, Vol. 62, No. 1, January 2004, pp. 25-26.
"College of William and Mary, Nondestructive Testing Doctoral Program at the," Mark K. Hinders, *M.E.*, Vol. 62, No. 8, August 2004, pp. 833-834.
"Combined NDT Fatigue Testing and Three Dimensional Image Processing Study of a SiC/SiC Composite System, A," Abdul-Aziz, Ali, Louis J. Ghosn, George Y. Baaklini, Richard W. Rauser and John D. Zima, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1222-1226.
"Computed Tomography of Aggregates and Asphalt Mixes, X-ray," Eyad Masad, *M.E.*, Vol. 62, No. 7, July 2004, pp. 775-783.
"Cowley County Community College, The NDT Program at," Bruce Crouse, *M.E.*, Vol. 62, No. 8, August 2004, pp. 827-828.
"Data Acquisition and Recording," *Product Spotlight*, *M.E.*, Vol. 62, No. 7, July 2004, pp. 749-750.
"Detection and Characterization of Discontinuities in Stainless Steel by the Laser Ultrasonic Synthetic Aperture Focusing Technique," Makoto Ochiai, Daniel Lévesque, Richard Talbot, Alain Blouin, Akira Fukumoto and Jean-Pierre Monchalin, *M.E.*, Vol. 62, No. 4, April 2004, pp. 450-459.
"Development of an Undergraduate Course on Nondestructive Testing," Francesco Lanza di Scalea and Vistasp M. Karbhari, *M.E.*, Vol. 62, No. 8, August 2004, p. 829.
"Digital Radiography in the Electric Power Industry," Stuart Kleven, *NDT Solution*, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1198-1200.
"Diversity," Sharon I. Vukelich, *From the Secretary/Treasurer*, *M.E.*, Vol. 62, No. 5, May 2004, p. 487.
"Eddy Current Depth of Penetration," Don Hagemaier, *Back to Basics*, *M.E.*, Vol. 62, No. 10, October 2004, pp. 1028-1029.
"Eddy Current for the Characterization of Corrosion in Multilayer Structures, Multifrequency," M.S. Safizadeh, Z. Liu, B.A. Lepine and D.S. Forsyth, *M.E.*, Vol. 62, No. 5, May 2004, pp. 535-539.
"Eddy Current Testing of Jet Engines," Craig W. Benson, *M.E.*, Vol. 62, No. 5, May 2004, pp. 516-522.
"Eddy Current Testing Using Radial Basis Function Neural Networks, Quantitative," S. Thirunavukkarasu, B.P.C. Rao, T. Jayakumar, P. Kalyanasundaram and Baldev Raj, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1213-1217.
*Education Forum:* *M.E.*, Vol. 62, No. 8, August 2004, pp. 820-821.
"Elastic Modulus Determination as a Potential Tool for Predicting Embrittlement in a Ferritic Steel," Vaidehi Ganesan, P. Palanichamy and Baldev Raj, *M.E.*, Vol. 62, No. 2, February 2004, pp. 137-142.
"Election Results, ASNT 2004," *Society News*, *M.E.*, Vol. 62, No. 10, October 2004, p. 1033.
"Electromagnetic Testing," *Product Spotlight*, *M.E.*, Vol. 62, No. 5, May 2004, pp. 504-506.
*Errata:* "*Redi-Reference* Errata," *M.E.*, Vol. 62, No. 5, May 2004, p. 512.
"Examining the Knuckle Region of Hanford's Double Shell Waste Tanks," Allan F. Pardini, *M.E.*, Vol. 62, No. 11, November 2004, pp. 1114-1120.
*Exhibitors Gallery:* *M.E.*, Vol. 62, No. 10, October 2004, pp. 1002-1022.
"Expression of Thanks, An," Wayne N. Holliday, *From the Executive Director*, *M.E.*, Vol. 62, No. 1, January 2004, p. 7.
"Faculty Grant Applications Solicited," *Awards and Honors*, *M.E.*, Vol. 62, No. 9, September 2004, p. 922.
"Failure of the X-ray Inverse Square Law," Don Hagemaier, *Tech Tips*, *M.E.*, Vol. 62, No. 11, November 2004, p. 1131.
"Fellow Award Nominations Solicited, ASNT," *Awards and Honors*, *M.E.*, Vol. 62, No. 11, November 2004, p. 1124.
"Fellowship Award Being Accepted, Nominations for ASNT," *Awards and Honors*, *M.E.*, Vol. 62, No. 9, September 2004, pp. 921-922.
*Fellowship Award Paper:* "Load Measurement and Health Monitoring in Cable Stays via Guided Wave Magnetostrictive Ultrasonics," Piervincenzo Rizzo and Francesco Lanza di Scalea, *M.E.*, Vol. 62, No. 10, October 2004, pp. 1057-1065.
*Fellowship Award Paper:* "Microwave Reflection Properties of Mortar Possessing a Cyclically Ingressed Sodium Chloride Profile," Kristen Muñoz, Bharath Akuthota, Eric Gallaher and Reza Zoughi, *M.E.*, Vol. 62, No. 10, October 2004, pp. 1049-1056.
*Fellowship Award Paper:* "Numerical Modeling of Microwave Testing of Materials Using a Transmission Line Matrix Technique," Ciocan, Razvan and Nathan Ida, *M.E.*, Vol. 62, No. 5, May 2004, pp. 528-534.
"Ferritic Steel, Elastic Modulus Determination as a Potential Tool for Predicting Embrittlement in a," Vaidehi Ganesan, P. Palanichamy and Baldev Raj, *M.E.*, Vol. 62, No. 2, February 2004, pp. 137-142.
"Film Density and Penetrated Thickness in Radiography, Thickness Testing Using a New Relationship between," Sung Sik Lee and Young H. Kim, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1218-1221.
*From the Chair:* "In Appreciation of Volunteers," Joseph L. Mackin, *M.E.*, Vol. 62, No. 12, December 2004, p. 1175.
*From the Executive Director:* "An Expression of Thanks," Wayne N. Holliday, *M.E.*, Vol. 62, No. 1, January 2004, p. 7.
*From the President:* "ASNT Conferences: An Opportunity to Become Involved," Joseph L. Mackin, *M.E.*, Vol. 62, No. 3, March 2004, p. 311.
*From the President:* "ASNT Conferences: An Opportunity to Grow as Professionals," Joseph L. Mackin, *M.E.*, Vol. 62, No. 9, September 2004, p. 891.
*From the President:* "ASNT Recertification Points Revision," Joseph L. Mackin, *M.E.*, Vol. 62, No. 10, October 2004, p. 975.
*From the President:* "Bylaws Change Vote Delayed," Joseph L. Mackin, *M.E.*, Vol. 62, No. 8, August 2004, p. 811.
*From the President:* "Participating in the ASNT Election Process," Joseph L. Mackin, *M.E.*, Vol. 62, No. 7, July 2004, p. 719.
*From the President:* "The Past and Future of Certification Programs," Joseph L. Mackin, *M.E.*, Vol. 62, No. 11, November 2004, p. 1091.
*From the President:* "Proposed Bylaws Changes," Joseph L. Mackin, *M.E.*, Vol. 62, No. 2, February 2004, p. 99.
*From the President:* "Sections Are the Backbone of Our Society," Joseph L. Mackin, *M.E.*, Vol. 62, No. 4, April 2004, p. 403.
*From the Secretary/Treasurer:* "Diversity," Sharon I. Vukelich, *M.E.*, Vol. 62, No. 5, May 2004, p. 487.
*From the Vice President:* "Play Second Fiddle for ASNT," Henry M. Stephens, *M.E.*, Vol. 62, No. 6, June 2004, p. 567.
"Glass Filler in Polypropylene Compounds Containing Titanium Dioxide,

Online Measuring of," Nidal H. Abu-Zahra and Taysir H. Nayfeh, *M.E.*, Vol. 62, No. 1, January 2004, pp. 63-68.
"Ground Penetrating Radar: State of the Practice for Pavement Assessment," Imad L. Al-Qadi and Samer Lahouar, *M.E.*, Vol. 62, No. 7, July 2004, pp. 759-763.
"Guided Wave Magnetostrictive Ultrasonics, Load Measurement and Health Monitoring in Cable Stays via," Piervincenzo Rizzo and Francesco Lanza di Scalea, *Fellowship Award Paper, M.E.*, Vol. 62, No. 10, October 2004, pp. 1057-1065.
"How Gamma Emitting Radioisotopes Are Identified," Frank A. Iddings, *Back to Basics, M.E.*, Vol. 62, No. 4, April 2004, pp. 418-420.
"Improvements in Noncontact Ultrasonic Testing of Rails by the Discrete Wavelet Transform," John McNamara and Francesco Lanza di Scalea, *M.E.*, Vol. 62, No. 3, March 2004, pp. 365-372.
"In Appreciation of Volunteers," Joseph L. Mackin, *From the Chair, M.E.*, Vol. 62, No. 12, December 2004, p. 1175.
*In Memoriam:* "Jack Lavender," *M.E.*, Vol. 62, No. 2, February 2004, p. 136.
"Infrared and Thermal Testing," *Product Spotlight, M.E.*, Vol. 62, No. 9, September 2004, pp. 910-912.
"Inspection Methodologies in a Manufacturing Curriculum, Integration of," Angie Hill Price and Robert W. Bolton, *M.E.*, Vol. 62, No. 8, August 2004, pp. 835-836.
"Integration of Inspection Methodologies in a Manufacturing Curriculum," Angie Hill Price and Robert W. Bolton, *M.E.*, Vol. 62, No. 8, August 2004, pp. 835-836.
*International News:* "The World Conference on NDT — Montréal 2004," Stephen J. Lavender, *M.E.*, Vol. 62, No. 12, December 2004, p. 1234.
"Jack Lavender," *In Memoriam, M.E.*, Vol. 62, No. 2, February 2004, p. 136.
"Lamb Wave Thickness Measurement Potential with Angle Beam and Normal Beam Excitation," Wei Luo and Joseph L. Rose, *M.E.*, Vol. 62, No. 8, August 2004, pp. 860-866.
"Lavender, Jack," *In Memoriam, M.E.*, Vol. 62, No. 2, February 2004, p. 136.
"Load Measurement and Health Monitoring in Cable Stays via Guided Wave Magnetostrictive Ultrasonics," Piervincenzo Rizzo and Francesco Lanza di Scalea, *Fellowship Award Paper, M.E.*, Vol. 62, No. 10, October 2004, pp. 1057-1065.
"Loading and Stress in Acoustic Emission Testing," Adrian A. Pollock, *Back to Basics, M.E.*, Vol. 62, No. 3, March 2004, pp. 326-333.
"Lou DiValerio Technician of the Year Award," *Awards and Honors, M.E.*, Vol. 62, No. 12, December 2004, p. 1204.
"Magnetic Barkhausen Emission Technique, Testing of Case Depth in Case Carburized Gear Steels Using," V. Moorthy, B.A. Shaw and K. Brimble, *M.E.*, Vol. 62, No. 5, May 2004, pp. 523-527.
"Magnetic Flux Leakage Signals: Industrial Implementation, Shape Enhancement of," J. Etcheverry, A. Nicolini, A. Pignotti, G. Sánchez and P. Stickar, *M.E.*, Vol. 62, No. 8, August 2004, pp. 867-870.
"Magnetic Particle/Liquid Penetrant Testing," *Product Spotlight, M.E.*, Vol. 62, No. 6, June 2004, pp. 589-590.
"Magnetic Wall Measurements of Coiled Oilfield Tubing, Observations on," Roderic K. Stanley, *NDT Solution, M.E.*, Vol. 62, No. 2, February 2004, pp. 125-128.
"Marble Rock Blocks, Ultrasonic Nondestructive Testing on," L. Vergara, J. Gosálbez, J.V. Fuente, R. Miralles, I. Bosch, A. Salazar, A.M. López and L.E. Domínguez, *M.E.*, Vol. 62, No. 1, January 2004, pp. 73-78.
"*Materials Evaluation* through the Years," David F. Fanning, *M.E.*, Vol. 62, No. 1, January 2004, pp. 21-23.
"McMaster Gold Medal Applications Accepted," *Awards and Honors, M.E.*, Vol. 62, No. 12, December 2004, p. 1204.
"Measuring Discontinuity Depth of Butt Welds," Bahman Zoofan, *Tech Tips, M.E.*, Vol. 62, No. 1, January 2004, p. 59.
*Mehl Honor Lecture:* "Structural Health Monitoring: Before and after Crack Birth," John C. Duke, Jr., *M.E.*, Vol. 62, No. 1, January 2004, pp. 53-55.
"Mentoring Award," *Awards and Honors, M.E.*, Vol. 62, No. 12, December 2004, p. 1204.
"Mentoring Award Nominations," *Society News, M.E.*, Vol. 62, No. 1, January 2004, p. 28.
"Method of In Situ Thickness Measurement of Sputtering Target Bonded Assemblies Using the Bubbler Technique," Alex Leybovich, *M.E.*, Vol. 62, No. 3, March 2004, pp. 334-336.
"Microstructural and Discontinuity Characterization in Ceramic Composites Using an Ultrasonic Guided Wave Scan System," D.J. Roth, M.J. Verrilli, L.M. Cosgriff, R.E. Martin and R.T. Bhatt, *M.E.*, Vol. 62, No. 9, September 2004, pp. 948-953.
"Microwave Reflection Properties of Mortar Possessing a Cyclically Ingressed Sodium Chloride Profile," Kristen Muñoz, Bharath Akuthota, Eric Gallaher and Reza Zoughi, *Fellowship Award Paper, M.E.*, Vol. 62, No. 10, October 2004, pp. 1049-1056.
"Microwave Testing of Materials Using a Transmission Line Matrix Technique, Numerical Modeling of," Razvan Ciocan and Nathan Ida, *Fellowship Award Paper, M.E.*, Vol. 62, No. 5, May 2004, pp. 528-534.
"Multifrequency Eddy Current for the Characterization of Corrosion in Multilayer Structures," M.S. Safizadeh, Z. Liu, B.A. Lepine and D.S. Forsyth, *M.E.*, Vol. 62, No. 5, May 2004, pp. 535-539.
"NDT as I Have Known It," Robert Baker, *M.E.*, Vol. 62, No. 1, January 2004, pp. 19-20.
*NDT Buyers Guide, M.E.*, Vol. 62, No. 6, June 2004, pp. 591-664.
"NDT Fatigue Testing and Three Dimensional Image Processing Study of a SiC/SiC Composite System, A Combined," Abdul-Aziz, Ali, Louis J. Ghosn, George Y. Baaklini, Richard W. Rauser and John D. Zima, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1222-1226.
"NDT for the Lincoln Park Zoo Animal Cages," Stuart Kleven, *Back to Basics, M.E.*, Vol. 62, No. 8, August 2004, pp. 825-826.
"NDT in the Heartland — An Aerospace Perspective," *Wrap-up, M.E.*, Vol. 62, No. 8, August 2004, pp. 846-847.
"NDT Laboratory Equipment," *Product Spotlight, M.E.*, Vol. 62, No. 4, April 2004, pp. 423-425.
*NDT Literature Showcase: M.E.*, Vol. 62, No. 4, April 2004, p. 421.
*NDT Literature Showcase: M.E.*, Vol. 62, No. 11, November 2004, p. 1106.
"NDT of Pavements: An Introduction to the Technical Focus Issue," Imad L. Al-Qadi, *M.E.*, Vol. 62, No. 7, July 2004, p. 758.
"NDT Program at Cowley County Community College, The," Bruce Crouse, *M.E.*, Vol. 62, No. 8, August 2004, pp. 827-828.
"NDT, Reducing the Burden of," Charles F. Buynak and Matt Golis, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1190-1194.
"NDT Software," *Product Spotlight, M.E.*, Vol. 62, No. 8, August 2004, pp. 837-839.
*NDT Solution:* "Digital Radiography in the Electric Power Industry," Stuart Kleven, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1198-1200.
*NDT Solution:* "Observations on Magnetic Wall Measurements of Coiled Oilfield Tubing," Roderic K. Stanley, *M.E.*, Vol. 62, No. 2, February 2004, pp. 125-128.
*NDT Solution:* "Problems Using Flat Reference Blocks for Calibrating Ultrasonic Systems for Testing Cylindrical Material," Kenneth H. Beck, *M.E.*, Vol. 62, No. 4, April 2004, pp. 427-429.
*NDT Solution:* "Remote Testing of Underground High Level Radioactive Waste Storage Tanks," J.B. Elder, *M.E.*, Vol. 62, No. 9, September 2004, pp. 915-920.
*NDT Solution:* "Shear Wave Polarization Follows Twist of Rectangular Steel Bar," James C. Hurd, Toan H. Nguyen and Lawrence C. Lynnworth, *M.E.*, Vol. 62, No. 1, January 2004, pp. 37-42.
*NDT Web Sightings: M.E.*, Vol. 62, No. 3, March 2004, p. 337.
*NDT Web Sightings: M.E.*, Vol. 62, No. 5, May 2004, pp. 540-541.
*NDT Web Sightings: M.E.*, Vol. 62, No. 7, July 2004, p. 753.
*NDT Web Sightings: M.E.*, Vol. 62, No. 9, September 2004, pp. 904-905.
"Neural Networks, Automatic Testing of Rigid Risers Using Time of Flight Diffraction and," Antonio A. de Carvalho, Marcio H.S. Siqueira, Ivan C. da Silva and João M.A. Rebello, *M.E.*, Vol. 62, No. 10, October 2004, pp. 1066-1070.
*New Products: M.E.*, Vol. 62, No. 1, January 2004, pp. 60-62.
*New Products: M.E.*, Vol. 62, No. 2, February 2004, pp. 150-154.
*New Products: M.E.*, Vol. 62, No. 3, March 2004, pp. 356-360.
*New Products: M.E.*, Vol. 62, No. 4, April 2004, pp. 441-442.
*New Products: M.E.*, Vol. 62, No. 5, May 2004, pp. 543-545.
*New Products: M.E.*, Vol. 62, No. 10, October 2004, pp. 1046-1048.
*New Products: M.E.*, Vol. 62, No. 11, November 2004, pp. 1132-1134.
"Nominations for ASNT Fellowship Award Being Accepted," *Awards and Honors, M.E.*, Vol. 62, No. 9, September 2004, pp. 921-922.
"Nominees and Candidates for 2004-2005 ASNT Officer and Director Positions Announced," *Special Notice, M.E.*, Vol. 62, No. 5, May 2004, p. 508.
"Nondestructive Testing, Development of an Undergraduate Course on," Francesco Lanza di Scalea and Vistasp M. Karbhari, *M.E.*, Vol. 62, No. 8, August 2004, p. 829.
"Nondestructive Testing Doctoral Program at the College of William and Mary," Mark K. Hinders, *M.E.*, Vol. 62, No. 8, August 2004, pp. 833-834.
"Nondestructive Testing of Pavement Structures," Nishantha Bandara and Robert C. Briggs, *Back to Basics, M.E.*, Vol. 62, No. 7, July 2004, pp. 733-740.
"Nondestructive Testing of Small Castings," Godfrey Hands and Robert H. Nath, *Back to Basics, M.E.*, Vol. 62, No. 2, February 2004, pp. 111-115.
"Nondestructive Testing on Marble Rock Blocks, Ultrasonic," L. Vergara, J. Gosálbez, J.V. Fuente, R. Miralles, I. Bosch, A. Salazar, A.M. López and L.E. Domínguez, *M.E.*, Vol. 62, No. 1, January 2004, pp. 73-78.
"Nondestructive Testing, A Review of the Barkhausen Effect and Its Applications to," Chester C.H. Lo, *M.E.*, Vol. 62, No. 7, July 2004, pp. 741-748.
"Numerical Modeling of Microwave Testing of Materials Using a Transmission Line Matrix Technique," Razvan Ciocan and Nathan Ida, *Fellowship Award Paper, M.E.*, Vol. 62, No. 5, May 2004, pp. 528-534.
"Observations on Magnetic Wall Measurements of Coiled Oilfield Tubing," Roderic K. Stanley, *NDT Solution, M.E.*, Vol. 62, No. 2, February 2004, pp. 125-128.

"Online Measurement of Glass Filler in Polypropylene Compounds Containing Titanium Dioxide," Nidal H. Abu-Zahra and Taysir H. Nayfeh, *M.E.*, Vol. 62, No. 1, January 2004, pp. 63-68.
"Participating in the ASNT Election Process," Joseph, L. Mackin, *From the President*, *M.E.*, Vol. 62, No. 7, July 2004, p. 719.
"The Past and Future of Certification Programs," Joseph L. Mackin, *From the President*, *M.E.*, Vol. 62, No. 11, November 2004, p. 1091.
"Pavement Assessment, Ground Penetrating Radar: State of the Practice for," Imad L. Al-Qadi and Samer Lahouar, *M.E.*, Vol. 62, No. 7, July 2004, pp. 759-763.
"Pavement Response in Falling Weight Deflectometer Testing, Use of Dynamic Analysis for Interpreting," Karim Chatti, *M.E.*, Vol. 62, No. 7, July 2004, pp. 764-774.
"Pavement Structures, Nondestructive Testing of," Nishantha Bandara and Robert C. Briggs, *Back to Basics*, *M.E.*, Vol. 62, No. 7, July 2004, pp. 733-740.
"Philip D. Johnson Honorary Member Award," *Awards and Honors*, *M.E.*, Vol. 62, No. 9, September 2004, p. 921.
"Play Second Fiddle for ASNT," Henry M. Stephens, *From the Vice President*, *M.E.*, Vol. 62, No. 6, June 2004, p. 567.
"Practical Considerations on Ultrasonic Guided Wave Propagation: Immersion and Contact Methods," M.J. Santos, A.R. Ferreira and J.M. Perdigão, *M.E.*, Vol. 62, No. 4, April 2004, pp. 443-449.
"Prediction of Error Caused by Temperature Effects in Ultrasonic Thickness Measurement," Ren-Rong Chang, Chi-Min Shu, Ming-Kuen Chang and Ngai-Mun Chow, *M.E.*, Vol. 62, No. 1, January 2004, pp. 69-72.
"Predictive Model for Determination of Pitting Corrosion in Stainless Steel Pipes," Mohammad Riahi and Rameen Alipour, *M.E.*, Vol. 62, No. 3, March 2004, pp. 373-375.
"President's Award Final Standings, 2003-2004," *M.E.*, Vol. 62, No. 10, October 2004, p. 1031.
"Probability of Detection, Bayesian Approaches to Using Field Test Data in Determining the," D.V. Leemans and D. Forsyth, *M.E.*, Vol. 62, No. 8, August 2004, pp. 855-859.
"Problems Using Flat Reference Blocks for Calibrating Ultrasonic Systems for Testing Cylindrical Material," Kenneth H. Beck, *NDT Solution*, *M.E.*, Vol. 62, No. 4, April 2004, pp. 427-429.
*Product Spotlight:* "Data Acquisition and Recording," *M.E.*, Vol. 62, No. 7, July 2004, pp. 749-750.
*Product Spotlight:* "Electromagnetic Testing," *M.E.*, Vol. 62, No. 5, May 2004, pp. 504-506.
*Product Spotlight:* "Infrared and Thermal Testing," *M.E.*, Vol. 62, No. 9, September 2004, pp. 910-912.
*Product Spotlight:* "Magnetic Particle/Liquid Penetrant Testing," *M.E.*, Vol. 62, No. 6, June 2004, pp. 589-590.
*Product Spotlight:* "NDT Laboratory Equipment," *M.E.*, Vol. 62, No. 4, April 2004, pp. 423-425.
*Product Spotlight:* "NDT Software," *M.E.*, Vol. 62, No. 8, August 2004, pp. 837-839.
*Product Spotlight:* "Radiographic Testing," *M.E.*, Vol. 62, No. 12, December 2004, pp. 1201-1203.
*Product Spotlight:* "Special NDT Methods," *M.E.*, Vol. 62, No. 3, March 2004, pp. 344-348.
*Product Spotlight:* "Ultrasonic Testing," *M.E.*, Vol. 62, No. 1, January 2004, pp. 34-36.
*Product Spotlight:* "Visual and Optical Testing," *M.E.*, Vol. 62, No. 2, February 2004, pp. 123-124.
*Product Spotlight:* "Weld Testing," *M.E.*, Vol. 62, No. 11, November 2004, pp. 1121-1122.
"Proposed Bylaws Changes," Joseph L. Mackin, *From the President*, *M.E.*, Vol. 62, No. 2, February 2004, p. 99.
"Quantitative Eddy Current Testing Using Radial Basis Function Neural Networks," S. Thirunavukkarasu, B.P.C. Rao, T. Jayakumar, P. Kalyanasundaram and Baldev Raj, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1213-1217.
"Radiographic Testing," *Product Spotlight*, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1201-1203.
"Radiography in the Electric Power Industry, Digital," Stuart Kleven, *NDT Solution*, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1198-1200.
"Radiography, Thickness Testing Using a New Relationship between Film Density and Penetrated Thickness in," Sung Sik Lee and Young H. Kim, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1218-1221.
"Radiology in the Food Industry, Use of Computed," Stuart Kleven, *Back to Basics*, *M.E.*, Vol. 62, No. 6, June 2004, pp. 580-581.
"Recertification Points Revision, ASNT," Joseph L. Mackin, *From the President*, *M.E.*, Vol. 62, No. 10, October 2004, p. 975.
"*Redi-Reference* Errata," *Errata*, *M.E.*, Vol. 62, No. 5, May 2004, p. 512.
"Reducing the Burden of NDT," Charles F. Buynak and Matt Golis, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1190-1194.
"Relationship between Crack Opening Behavior and Crack Tip Scattering and Diffraction of Longitudinal Waves," Tsuyoshi Mihara, Shinji Nomura, Masashi Akino and Kazushi Yamanaka, *M.E.*, Vol. 62, No. 9, September 2004, pp. 943-947.
"Remote Testing of Underground High Level Radioactive Waste Storage Tanks," J.B. Elder, *NDT Solution*, *M.E.*, Vol. 62, No. 9, September 2004, pp. 915-920.
"Research Award for Innovation," *Society News*, *M.E.*, Vol. 62, No. 6, June 2004, p. 677.
"Research Award for Sustained Excellence," *Society News*, *M.E.*, Vol. 62, No. 6, June 2004, p. 677.
"*Research in Nondestructive Evaluation* Resumes Publication," Edmund G. Henneke, II, *M.E.*, Vol. 62, No. 2, February 2004, p. 110.
"Review of the Barkhausen Effect and Its Applications to Nondestructive Testing, A," Chester C.H. Lo, *M.E.*, Vol. 62, No. 7, July 2004, pp. 741-748.
"Robert C. McMaster Gold Medal," *Awards and Honors*, *M.E.*, Vol. 62, No. 11, November 2004, pp. 1123-1124.
"Scattered Light Scanning for Fatigue Damage Precursor Detection on Turbine Components," J.C. Earthman, J. Angeles, V. Markov, J. Trolinger and J.G. Moffatt, *M.E.*, Vol. 62, No. 4, April 2004, pp. 460-465.
"Secretary/Treasurer Eligibility Requirements Announcement," *Society News*, *M.E.*, Vol. 62, No. 11, November 2004, pp. 1130-1131.
"Section Leaders Conference, 2004 ASNT," *Wrap-up*, *M.E.*, Vol. 62, No. 8, August 2004, p. 853.
"Sections Are the Backbone of Our Society," Joseph L. Mackin, *From the President*, *M.E.*, Vol. 62, No. 4, April 2004, p. 403.
"Segmentation of Welding Discontinuities Using a Robust Algorithm," Miguel Carrasco and Domingo Mery, *M.E.*, Vol. 62, No. 11, November 2004, pp. 1142-1147.
"Shape Enhancement of Magnetic Flux Leakage Signals: Industrial Implementation," J. Etcheverry, A. Nicolini, A. Pignotti, G. Sánchez and P. Stickar, *M.E.*, Vol. 62, No. 8, August 2004, pp. 867-870.
"Shear Wave Polarization Follows Twist of Rectangular Steel Bar," James C. Hurd, Toan H. Nguyen and Lawrence C. Lynnworth, *NDT Solution*, *M.E.*, Vol. 62, No. 1, January 2004, pp. 37-42.
*Society News:* "2006 Lester Honor Lecture Solicitation," *M.E.*, Vol. 62, No. 2, February 2004, p. 122.
*Society News:* "ASNT 2004 Election Results," *M.E.*, Vol. 62, No. 10, October 2004, p. 1033.
*Society News:* ASNT Announces Award Winners," *M.E.*, Vol. 62, No. 6, June 2004, pp. 676-677.
*Society News:* "ASNT Announces Award Winners, *M.E.*, Vol. 62, No. 8, August 2004, p. 840.
*Society News:* "ASNT Awards and Honors Applications Accepted," *M.E.*, Vol. 62, No. 2, February 2004, p. 122.
*Society News:* "ASNT Awards and Honors Applications Accepted," *M.E.*, Vol. 62, No. 8, August 2004, p. 840.
*Society News:* "ASNT Memorial Scholarship Fund," *M.E.*, Vol. 62, No. 2, February 2004, p. 122.
*Society News:* "Annual Business Meeting Notice," *M.E.*, Vol. 62, No. 10, October 2004, p. 1033.
*Society News:* "Certification Management Council Seeks Applicants," *M.E.*, Vol. 62, No. 1, January 2004, pp. 27-28.
*Society News:* "Certification Management Council Seeks Applicants," *M.E.*, Vol. 62, No. 11, November 2004, p. 1130.
*Society News:* "Certification Management Council Seeks Applicants," M.E., Vol. 62, No. 12, December 2004, p. 1196.
*Society News:* "Mentoring Award Nominations," *M.E.*, Vol. 62, No. 1, January 2004, p. 28.
*Society News:* "Research Award for Innovation," *M.E.*, Vol. 62, No. 6, June 2004, p. 677.
*Society News:* "Research Award for Sustained Excellence," *M.E.*, Vol. 62, No. 6, June 2004, p. 677.
*Society News:* "Secretary/Treasurer Eligibility Requirements Announcement," *M.E.*, Vol. 62, No. 11, November 2004, pp. 1130-1131.
"Sodium Chloride Profile, Microwave Reflection Properties of Mortar Possessing a Cyclically Ingressed," Kristen Muñoz, Bharath Akuthota, Eric Gallaher and Reza Zoughi, *Fellowship Award Paper*, *M.E.*, Vol. 62, No. 10, October 2004, pp. 1049-1056.
*Special Announcement:* "ACCP Level II Visual Testing Certification Available to AWS CWIs and SCWIs," *M.E.*, Vol. 62, No. 12, December 2004, p. 1196.
*Special Notice:* "2003 ASNT Annual Business Meeting Minutes," *M.E.*, Vol. 62, No. 4, April 2004, pp. 430-431.
"Special NDT Methods," *Product Spotlight*, *M.E.*, Vol. 62, No. 3, March 2004, pp. 344-348.
*Special Notice:* "2004 ASNT Annual Business Meeting Agenda," *M.E.*, Vol. 62, No. 10, October 2004, p. 1034.
*Special Notice:* "Change in ASNT Bylaws Proposed," *M.E.*, Vol. 62, No. 10, October 2004, p. 1035.
*Special Notice:* "Nominees and Candidates for 2004-2005 ASNT Officer and Director Positions Announced," *M.E.*, Vol. 62, No. 5, May 2004, p. 508.
"Stainless Steel by the Laser Ultrasonic Synthetic Aperture Focusing

Technique, Detection and Characterization of Discontinuities in," Makoto Ochiai, Daniel Lévesque, Richard Talbot, Alain Blouin, Akira Fukumoto and Jean-Pierre Monchalin, *M.E.*, Vol. 62, No. 4, April 2004, pp. 450-459.
"Stainless Steel Welds Using Phased Array Ultrsaonics, Testing Superaustenitic," M.G. Lozev, E.B. Shell, R.L. Spencer and B.B. Grimmett, *M.E.*, Vol. 62, No. 11, November 2004, pp. 1135-1141.
"Steel Pipes, Predictive Model for Determination of Pitting Corrosion in Stainless," Mohammad Riahi and Rameen Alipour, *M.E.*, Vol. 62, No. 3, March 2004, pp. 373-375.
"Structural Health Monitoring: Before and after Crack Birth," John C. Duke, Jr., *Mehl Honor Lecture, M.E.*, Vol. 62, No. 1, January 2004, pp. 53-55.
"Structural Materials Topical, Another Successful," *Wrap-up, M.E.*, Vol. 62, No. 12, December 2004, p. 1211.
"Successful Topicals Continue with Digital Imaging VII," *Wrap-up, M.E.*, Vol. 62, No. 11, November 2004, p. 1113.
*Tech Tips:* "Failure of the X-ray Inverse Square Law," Don Hagemaier, *M.E.*, Vol. 62, No. 11, November 2004, p. 1131.
*Tech Tips:* "Measuring Discontinuity Depth of Butt Welds," Bahman Zoofan, *M.E.*, Vol. 62, No. 1, January 2004, p. 59.
"Temperature Dependence of Dynamic Modulus and Damping in Composites and Optical Telecommunication Cables Tested by the Vibration Resonance Technique," C.Y. Wei and S.N. Kukureka, *M.E.*, Vol. 62, No. 3, March 2004, pp. 376-381.
"Testing of Case Depth in Case Carburized Gear Steels Using Magnetic Barkhausen Emission Technique," V. Moorthy, B.A. Shaw and K. Brimble, *M.E.*, Vol. 62, No. 5, May 2004, pp. 523-527.
"Testing Superaustenitic Stainless Steel Welds Using Phased Array Ultrasonics," M.G. Lozev, E.B. Shell, R.L. Spencer and B.B. Grimmett, *M.E.*, Vol. 62, No. 11, November 2004, pp. 1135-1141.
"Thermal Sprayed Coatings, Ultrasonic Testing with a Signal Processing Method for," Hiroaki Hatanaka, Ichiro Kajigaya and Takahiro Arakawa, *M.E.*, Vol. 62, No. 6, June 2004, pp. 683-689.
"Thickness Testing Using a New Relationship between Film Density and Penetrated Thickness in Radiography," Sung Sik Lee and Young H. Kim, *M.E.*, Vol. 62, No. 12, December 2004, pp. 1218-1221.
"Time of Flight Diffraction and Neural Networks, Automatic Testing of Rigid Risers Using," Antonio A. de Carvalho, Marcio H.S. Siqueira, Ivan C. da Silva and João M.A. Rebello, *M.E.*, Vol. 62, No. 10, October 2004, pp. 1066-1070.
"Titanium Dioxide, Online Measuring of Glass Filler in Polypropylene Compounds Containing," Nidal H. Abu-Zahra and Taysir H. Nayfeh, *M.E.*, Vol. 62, No. 1, January 2004, pp. 63-68.
"Transverse Shear to Torsion Mode Converter and Applications," Toan H. Nguyen, Christopher D. Smart and Lawrence C. Lynnworth, *M.E.*, Vol. 62, No. 6, June 2004, pp. 690-698.
"Turbine Components, Scattered Light Scanning for Fatigue Damage Precursor Detection on," J.C. Earthman, J. Angeles, V. Markov, J. Trolinger and J.G. Moffatt, *M.E.*, Vol. 62, No. 4, April 2004, pp. 460-465.
"Twenty-five Years of Getting Back to Basics," Frank A. Iddings, *M.E.*, Vol. 62, No. 9, September 2004, pp. 913-914.
"Ultrasonic Examination of Thermite Welds in Rails Based on the AREMA Guidelines," Surendra Singh and Robin Clark, *M.E.*, Vol. 62, No. 2, February 2004, pp. 143-148.
"Ultrasonic Guided Wave Propagation: Immersion and Contact Methods, Practical Considerations on," M.J. Santos, A.R. Ferreira and J.M. Perdigão, *M.E.*, Vol. 62, No. 4, April 2004, pp. 443-449.
"Ultrasonic Guided Wave Scan System, Microstructural and Discontinuity Characterization in Ceramic Composites Using an" D.J. Roth, M.J. Verrilli, L.M. Cosgriff, R.E. Martin and R.T. Bhatt, *M.E.*, Vol. 62, No. 9, September 2004, pp. 948-953.
"Ultrasonic Nondestructive Testing on Marble Rock Blocks," L. Vergara, J. Gosálbez, J.V. Fuente, R. Miralles, I. Bosch, A. Salazar, A.M. López and L.E. Domínguez, *M.E.*, Vol. 62, No. 1, January 2004, pp. 73-78.
"Ultrasonic Synthetic Aperture Focusing Technique, Detection and Characterization of Discontinuities in Stainless Steel by the Laser," Makoto Ochiai, Daniel Lévesque, Richard Talbot, Alain Blouin, Akira Fukumoto and Jean-Pierre Monchalin, *M.E.*, Vol. 62, No. 4, April 2004, pp. 450-459.
"Ultrasonic Systems for Testing Cylindrical Material, Problems Using Flat Reference Blocks for Calibrating," Kenneth H. Beck, *NDT Solution, M.E.*, Vol. 62, No. 4, April 2004, pp. 427-429.
"Ultrasonic Testing," *Product Spotlight, M.E.*, Vol. 62, No. 1, January 2004, pp. 34-36.
"Ultrasonic Testing for Transverse Discontinuities in Dissimilar Welds: Theoretical and Experimental Results," V. Munikoti, G. Brekow, U. Tessaro and A. Erhard, *M.E.*, Vol. 62, No. 11, November 2004, pp. 1148-1153.
"Ultrasonic Testing of Rails by the Discrete Wavelet Transform, Improvements in Noncontact," John McNamara and Francesco Lanza di Scalea, *M.E.*, Vol. 62, No. 3, March 2004, pp. 365-372.
"Ultrasonic Testing with a Signal Processing Method for Thermal Sprayed Coatings," Hiroaki Hatanaka, Ichiro Kajigaya and Takahiro Arakawa, *M.E.*, Vol. 62, No. 6, June 2004, pp. 683-689.
"Ultrasonic Thickness Measurement, Prediction of Error Caused by Temperature Effects in," Ren-Rong Chang, Chi-Min Shu, Ming-Kuen Chang and Ngai-Mun Chow, *M.E.*, Vol. 62, No. 1, January 2004, pp. 69-72.
"Ultrasonics, Load Measurement and Health Monitoring in Cable Stays via Guided Wave Magnetostrictive," Piervincenzo Rizzo and Francesco Lanza di Scalea, *Fellowship Award Paper, M.E.*, Vol. 62, No. 10, October 2004, pp. 1057-1065.
"Ultrasonics, Testing Superaustenitic Stainless Steel Welds Using Phased Array," M.G. Lozev, E.B. Shell, R.L. Spencer and B.B. Grimmett, *M.E.*, Vol. 62, No. 11, November 2004, pp. 1135-1141.
"Use of Computed Radiology in the Food Industry," Stuart Kleven, *Back to Basics, M.E.*, Vol. 62, No. 6, June 2004, pp. 580-581.
"Use of Dynamic Analysis for Interpreting Pavement Response in Falling Weight Deflectometer Testing," Karim Chatti, *M.E.*, Vol. 62, No. 7, July 2004, pp. 764-774.
"Vibration Resonance Technique, Temperature Dependence of Dynamic Modulus and Damping in Composites and Optical Telecommunication Cables Tested by the," C.Y. Wei and S.N. Kukureka, *M.E.*, Vol. 62, No. 3, March 2004, pp. 376-381.
"Visual and Optical Testing," *Product Spotlight, M.E.*, Vol. 62, No. 2, February 2004, pp. 123-124.
"Visual Testing, The Basics of," Frank A. Iddings, *Back to Basics, M.E.*, Vol. 62, No. 5, May 2004, pp. 500-501.
"Visual Testing Certification Available to AWS CWIs and SCWIs, ACCP Level II," *Special Announcement, M.E.*, Vol. 62, No. 12, December 2004, p. 1196.
"Wave Thickness Measurement Potential with Angle Beam and Normal Beam Excitation, Lamb," Wei Luo and Joseph L. Rose, *M.E.*, Vol. 62, No. 8, August 2004, pp. 860-866.
"Waves, Relationship between Crack Opening Behavior and Crack Tip Scattering and Diffraction of Longitudinal," Tsuyoshi Mihara, Shinji Nomura, Masashi Akino and Kazushi Yamanaka, *M.E.*, Vol. 62, No. 9, September 2004, pp. 943-947.
"Weld Testing," *Product Spotlight, M.E.*, Vol. 62, No. 11, November 2004, pp. 1121-1122.
"Welding Discontinuities Using a Robust Algorithm, Segmentation of," Miguel Carrasco and Domingo Mery, *M.E.*, Vol. 62, No. 11, November 2004, pp. 1142-1147.
"Welds in Rails Based on the AREMA Guidelines, Ultrasonic Examination of Thermite," Surendra Singh and Robin Clark, *M.E.*, Vol. 62, No. 2, February 2004, pp. 143-148.
"Welds: Theoretical and Experimental Results, Ultrasonic Testing for Transverse Discontinuities in Dissimilar," V. Munikoti, G. Brekow, U. Tessaro and A. Erhard, *M.E.*, Vol. 62, No. 11, November 2004, pp. 1148-1153.
"World Conference on NDT — Montréal 2004, The," Stephen J. Lavender, *International News, M.E.*, Vol. 62, No. 12, December 2004, p. 1234.
*Wrap-up:* "2004 ASNT Section Leaders Conference," *M.E.*, Vol. 62, No. 8, August 2004, p. 853.
*Wrap-up:* "ASNT's 13th Annual Research Symposium, Austin, Texas," *M.E.*, Vol. 62, No. 5, May 2004, p. 509.
*Wrap-up:* "Another Successful Structural Materials Topical," *M.E.*, Vol. 62, No. 12, December 2004, p. 1211.
*Wrap-up:* "NDT in the Heartland — An Aerospace Perspective," *M.E.*, Vol. 62, No. 8, August 2004, pp. 846-847.
*Wrap-up:* "Successful Topicals Continue with Digital Imaging VII," *M.E.*, Vol. 62, No. 11, November 2004, p. 1113.
"X-ray Computed Tomography of Aggregates and Asphalt Mixes," Eyad Masad, *M.E.*, Vol. 62, No. 7, July 2004, pp. 775-783.
"X-ray Inverse Square Law, Failure of the," Don Hagemaier, *Tech Tips, M.E.*, Vol. 62, No. 11, November 2004, p. 1131.